

Abstract

In forming a channel estimate, a received signal y is decoded to form data s , a convolution matrix \hat{S} is formed from the data s , a matrix F is formed from the data s such that the matrix F results from the forming of the matrix \hat{S} as a convolution matrix, and a conjugate gradient algorithm is performed to determine the channel estimate. The conjugate gradient algorithm is based on the received signal y , the matrix \hat{S} , and the matrix F .